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IMPORTANT NOTICE

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Priority date (day/month/year)
13 June 2003 (13.06.2003)

Applicant

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The International Bureau transmits herewith the following documents:

copy of the international application as published by the International Bureau on 23 December 2004 (23.12.2004) under
No. WO 2004/112144

copy of international application as republished by the International Bureau on under
No. WO

For an explanation as to the reason for this republication of the international application, reference is made to INID codes (15), (48) or (88) (*as the case may be*) on the front page of the attached document.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008221

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ H01L27/092, H03F3/34, H03F3/45, H01L29/78, H01L21/336

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01L27/092, H03F3/34, H03F3/45, H01L29/78, H01L21/336

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Toroku Jitsuyo Shinan Koho	1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 2002-118255 A (Toshiba Corp.), 19 April, 2002 (19.04.02), Full text; all drawings & US 2002/011612 A1 Full text; all drawings	1-6, 8 7
Y A	JP 2002-261097 A (Tadahiro OMI), 13 September, 2002 (13.09.02), Full text; all drawings & EP 1347506 A1 Full text; all drawings & WO 2002/054473 A1 & JP 2002-261091 A & KR 3068570 A	1-6, 8 7

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
06 August, 2004 (06.08.04)Date of mailing of the international search report
24 August, 2004 (24.08.04)Name and mailing address of the ISA/
Japanese Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/008221

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 4-154312 A (Fujitsu Ltd., Fujitsu VLSI Ltd.), 27 May, 1992 (27.05.92), Full text; all drawings (Family: none)	1-6, 8 7

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